

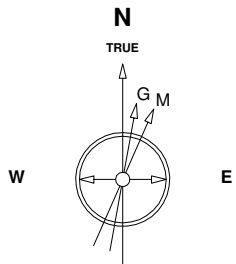
Great Western Operating Company, LLC

Location Colorado
Field Wattenburg
Installation Tower

Slot Slot S10 - Tower LD 19-262HN
Well Tower LD 19-262HN
Wellbore Tower LD 19-262HN (PWB)

Created by admin
Date plotted 15-May-2017

Plot reference is Tower LD 19-262HN (PWB).
Ref wellpath is Tower LD 19-262HN (PWP#1).
Coordinates are in Feet reference Slot S10 - Tower LD 19-262HN.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #1
Rig Datum to Mean Sea Level: 5259.60 ft.
Plot North is aligned to TRUE North.



Scale 1 cm = 400 ft

East (Feet) ->

-13600 -12800 -12000 -11200 -10400 -9600 -8800 -8000 -7200 -6400 -5600 -4800 -4000 -3200 -2400 -1600 -800 0 800 1600

10-May-2017
IGRF Model [1900.0-2020.0] Dip: 66.48 deg Field: 52154.2 nT
Lat: N39 57 11.0916 Long: W104 54 7.2792 Elev: 5239.60 ft
Magnetic North is 8.26 deg East of TRUE North
To correct azimuth from Magnetic to TRUE add 8.26 deg

Scale 1 cm = 400 ft
True Vertical Depth (Feet)

-800
0
800
1600
2400
3200
4000
4800
5600
6400
7200
8000
8800

9 5/8in Surface Casing

TPZ - 8717 / 7901 MD/TVD, 1613 FSL, 460 FEL Sec 20

5 1/2in Production Casing

Btm Perf - 18,209 / 7901 MD/TVD, 1607 FSL, 460 FWL Sec 19
BHL - 18,309 / 7901 MD/TVD, 1607 FSL, 360 FWL Sec 19

Sec 19, T1S, R67W

Sec 20, T1S, R67W

Sec 21, T1S, R67W

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TPZ - 8717 / 7901 MD/TVD, 1613 FSL, 460 FEL Sec 20

<- North(Feet)

Scale 1 cm = 400 ft

Scale 1 cm = 800 ft

Vertical Section (Feet) ->

Azimuth 259.44 with reference 0.00 N, 0.00 E from Slot S10 - Tower LD 19-262HN

WELL PROFILE DATA

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
Tie on	0.00	0.00	0.00	0.00	S 0.00	W 0.00		-0.00
KOP	4059.00	0.00	191.79	4059.00	S 0.00	W 0.00	0.00	-0.00
End of Build	5058.95	30.00	191.79	5013.89	S 250.45	W 52.29	9.84	97.29
End of Hold	7877.44	30.00	191.79	7454.80	S 1629.88	W 340.30	0.00	633.12
Target TPZ - ...Sec 20	8716.69	90.00	269.57	7901.00	S 1885.88	W 908.14	32.81	1238.26
Target Btm Pe...Sec 19	18208.62	90.00	269.57	7901.00	S 1956.62	W 10399.82	0.00	10582.26
End of Turn	18211.97	90.00	270.01	7901.00	S 1956.63	W 10403.16	42.65	10585.55
T.D. & Target BHL... 19	18308.63	90.00	270.01	7901.00	S 1956.62	W 10499.82	0.00	10680.57